



Antitubercular Drugs: Synthesis, Mechanism and Application

Guest Editors:

Dr. Anna Grzegorzewicz

Department of Microbiology,
Immunology, and Pathology,
Colorado State University, Fort
Collins, CO, USA

Dr. Zuzana Palčėková

Department of Microbiology,
Immunology, and Pathology,
Colorado State University, Fort
Collins, CO, USA

Dr. Prithwiraj De

Department of Microbiology,
Immunology, and Pathology,
Colorado State University, Fort
Collins, CO, USA

Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editors

Dear Colleagues,

Tuberculosis, caused by *Mycobacterium tuberculosis*, remains a major public health problem worldwide and is responsible for nearly 1.5 million deaths annually. In the last two decades, great progress in tuberculosis drug discovery has been made while searching for the most suitable approach to lead generation. Although there are currently several drug candidates in the late stages of development and new drugs have been recently introduced into the antitubercular drug regimen, more compounds presenting a better efficacy, less-toxicity, and targeting different subpopulations of *M. tuberculosis*, which, simultaneously, are not affected by the existing resistance mechanisms, are certainly urgently needed. This is approached by both the discovery of new molecular scaffolds and reposing the old antitubercular drugs.

In this Special Issue, we invite submissions exploring tuberculosis drug discovery including, but not limited to, the synthesis, mode of action, and determining the efficacy of compounds. Reviews and original research papers are welcome.

Dr. Anna Grzegorzewicz

Dr. Zuzana Palčėková

Dr. Prithwiraj De

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)